Index of Claims

| Application No. | Applicant(s) SONG, BYUNG SOO |  |  |  |  |  |  |  |
|-----------------|------------------------------|--|--|--|--|--|--|--|
| 10/612,880      |                              |  |  |  |  |  |  |  |
| Examiner        | Art Unit                     |  |  |  |  |  |  |  |
|                 |                              |  |  |  |  |  |  |  |

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Thuy V. Tran

**Appeal** Α o Objected

2821

| Claim       |          | Date   |                       |   |          |                 |   |          |      | Claim Date |          |  |  |  | 1.5             | Cla     | aim   | Date       |           |          |              |                 |           |          |          |          |
|-------------|----------|--|-----------------------|---|----------|-----------------|---|----------|------|------------|----------|--|--|--|-----------------|---------|-------|------------|-----------|----------|--------------|-----------------|-----------|----------|----------|----------|
|             |          |  |                       |   |          |                 |   | Т        |      |            |          |  |  |  |                 |         |       |            |           |          |              |                 |           |          |          |          |
| <u></u>     | Original | 8/18/04  |                       |   |          |                 |   |          |      | ज          | Original |  |  |  |                 | 14      | af    | Original   |           |          |              |                 |           |          |          |          |
| Final       | jë       | 18   |                       |   |          |                 |   |          |      | Final      | )rig     |  |  |  |                 |         | Final | )rig       |           |          |              |                 | - 1       |          |          |          |
|             | 0        | ~  |                       |   |          |                 |   |          |      |            | 0        |  |  | <u>                                     </u> | L               |         |       | 0          |           | L        | $\perp$      |                 |           |          |          |          |
| -           | 1        | v  |                       | $\top$  |          |                 |   |          |      |            | 51       |  |  |  |                 |         |       | 101        |           |          |              |                 | $\Box$    |          |          |          |
|             | 2        | v  |                       |   |          |                 |   |          |      |            | 52       |  |  |  |                 |         |       | 102        |           |          |              |                 |           |          |          |          |
|             | 3        | ٧  |                       |   |          |                 |   |          |      |            | 53       |  |  | $\bot \bot \bot$                             |                 | pit-ni, |       | 103        |           |          |              |                 |           | _        | _        | _        |
|             | 4        | v  |                       | $\perp$   | _        | Ш               |   |          |      |            | 54       |  | $\bot \bot$                                      | $\perp \perp \perp$                          |                 |         |       | 104        |           | _ _      | <u> </u>     |                 |           | _        | _        | ᆚ        |
|             | 5        | v  |                       |   | _        | $\sqcup$        | _   |          |      |            | 55       | $\bot$   | $\bot \bot$                                      | $\bot$                                       |                 |         |       | 105        | _         |          | _            | Ш               | _         | _        | 4        | 4        |
|             | 6        | v  | $\sqcup$              |   | _        | $\sqcup$        | 4   |          | 1.   |            | 56       |  |  | +  | $\perp$         |         |       | 106        | _         | -        | -            |                 |           | 4        | 4        | ႕        |
|             | 7        | ٧  | $\vdash$              |   | 1        | Н               |   | -        |      |            | 57       |  | ++   |  | Н               |         |       | 107        | $\dashv$  |          | +-           | $\vdash$        |           |          | $\dashv$ | 4        |
|             | 8        | <u> </u>   | $\vdash$              |   | ╀        | <u> </u>        | -   | -        |      |            | 58       | -  |  | ┦┈┦━┦  |                 |         |       | 108        |           |          | +-           | Н               |           | +        | -        | -        |
|             | 9        | 0  | $\vdash$              |   | $\vdash$ | $\vdash$        | -   |          |      |            | 59       |  | ++   | +  |                 | bi      |       | 109        |           |          | +            | Н               | $\dashv$  | $\dashv$ |          | $\dashv$ |
|             | 10       | 0  | -                     | -   |          | $\vdash$        | -   |          |      |            | 60       | +++  |  | +++  | Н               |         |       | 110        | -         | +        | +-           | Н               |           | +        | $\dashv$ | $\dashv$ |
|             | 11       | 0  | $\vdash \vdash$       | +-  | $\vdash$ | $\vdash \vdash$ | -   | +        |      |            | 61<br>62 | <del>- - -</del>                                 | ++   | +  | $\vdash$        |         |       | 111<br>112 | $\dashv$  |          | +-           | $\vdash$        |           | $\dashv$ | $\dashv$ | $\dashv$ |
| <del></del> | 12       | ├—   |                       | +-  | $\vdash$ | $\vdash \vdash$ | +   | +        |      |            | 63       | <del>-     </del> -                              | ++   | +  | $\dashv$        |         |       | 113        | $\dashv$  |          | ╫            | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |
|             | 13       | <u> </u>   |                       | +   | $\vdash$ | $\vdash \vdash$ | +   | -        |      |            | 64       | <del>- - -</del>                                 | +  | + + +  | $\dashv$        |         |       | 114        | $\vdash$  |          | +            | $\vdash$        | -         | $\dashv$ | -        | $\dashv$ |
|             | 15       | -  | $\vdash$              | +-  | +        | -               | $\dashv$  | +        |      |            | 65       | <del>-   -   -</del>                             | ++   | +  | -               |         |       | 115        | -         |          |              | H               | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |
|             | 16       | $\vdash$   | $\vdash$              | +-  | +        | $\vdash \vdash$ | $\dashv$  |          |      |            | 66       | <del>                                     </del> | ++   | ++-  | $\dashv$        |         |       | 116        | $\dashv$  | +        | +            | $\vdash$        | $\dashv$  | +        | $\dashv$ | $\dashv$ |
|             | 17       | $\vdash$   | $\vdash$              | +   | +        | $\vdash \vdash$ | -+  | +        |      |            | 67       | +++  | ++   | +++  | Н               |         |       | 117        | -         |          | +            |                 | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |
|             | 18       |  | -                     |   | +        | <del>├</del>    | -+  | +        |      |            | 68       | <del></del>                                      | +  | +++  | Н               |         |       | 118        |           |          | +            | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |
|             | 19       |  | <del>├</del> ╌├╌      | +   | +-       | $\vdash$        | $\dashv$  | $\dashv$ |      |            | 69       | <del>-   -   -</del>                             | +  | +  | Н               |         |       | 119        | $\dashv$  | $\dashv$ | +            | $\vdash$        | $\dashv$  | +        | $\dashv$ | $\dashv$ |
|             | 20       | _  | $\vdash$              | +   | +-       | $\vdash$        |   |          |      |            | 70       | <del></del>                                      | +  | +  |                 |         |       | 120        | $\dashv$  | -        | +            | H               | $\dashv$  | $\dashv$ | -        | $\dashv$ |
| <del></del> | 21       | -  |                       | +   | +        | $\vdash$        | _   |          |      |            | 71       |  | <del>                                     </del> | +  | $\neg$          |         |       | 121        | -         | _        | +-           |                 |           | +        | _        | $\dashv$ |
|             | 22       |  | $\vdash$              | +   | +        | $\vdash \vdash$ |   | $\dashv$ |      |            | 72       | +++  | ++   | ++-  | $\neg$          |         |       | 122        |           | _        |              |                 | $\neg$    | $\dashv$ | ᅥ        | -        |
|             | 23       | -  | $\vdash$              | +   | +        | $\vdash$        | -   | +        |      |            | 73       | <del>                                     </del> | ++   | +++  | Н               |         |       | 123        |           |          | +            | Н               |           | _        |          | -        |
| _           | 24       | $\vdash$   |                       | +   | +        | $\vdash$        | +   |          |      |            | 74       | <del></del>                                      | 1  | 1  | Н               | H       |       | 124        |           | $\neg$   | $t^-$        |                 | $\exists$ | 寸        | 一        | $\neg$   |
| _           | 25       | $\vdash$   | $\vdash$              | +   | +        |                 | _   | $\pm$    |      |            | 75       | <del>-     -   -</del>                           | ++   | +++  | Н               |         |       | 125        |           |          |              | Н               |           | 十        | $\neg$   | _        |
|             | 26       | -  |                       | +   | $\vdash$ | $\vdash$        | _   |          |      |            | 76       |  | 1 1  |  | П               |         |       | 126        | $\exists$ |          | <del> </del> |                 | $\dashv$  | $\dashv$ | 寸        | $\neg$   |
|             | 27       | <del>                                     </del> | $\vdash$              | +   | 1        |                 |   | +        |      |            | 77       |  | 1  |  | П               |         |       | 127        |           |          | 1            |                 | $\neg$    | 寸        | 寸        | $\neg$   |
|             | 28       |  | $\vdash$              | +   | 1        | H               | _   |          |      |            | 78       |  |  | $\Box\Box$                                   |                 |         |       | 128        |           |          | 1            |                 |           | ヿ        | ヿ        | $\neg$   |
|             | 29       | $\vdash$   | H                     | $\top$  | $\vdash$ |                 |   |          |      |            | 79       |  | 11   |  | П               |         |       | 129        |           |          |              |                 |           |          | $\neg$   |          |
|             | 30       |  | $\Box$                | 1   | $\top$   |                 |   |          |      |            | 80       |  |  | $\Box\Box$                                   |                 |         |       | 130        |           |          |              |                 |           |          | $\neg$   | $\neg$   |
|             | 31       |  |                       |   |          |                 |   | 1        |      |            | 81       |  | $\top$   |  |                 | B       |       | 131        |           |          |              |                 |           |          |          |          |
|             | 32       |  |                       | $\top$  |          |                 |   |          |      |            | 82       |  |  |  |                 |         |       | 132        |           |          |              |                 |           |          |          |          |
|             | 33       |  |                       | Τ   |          |                 |   |          |      |            | 83       |  |  |  |                 |         |       | 133        |           |          |              |                 |           |          |          |          |
|             | 34       |  |                       | floor   |          |                 |   |          | A    |            | 84       |  | $\Box$   |  |                 |         |       | 134        |           |          |              |                 |           | $\Box$   |          |          |
|             | 35       | Ĺ  |                       | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |                 |   |          | 1    |            | 85       |  |  |  |                 |         |       | 135        | $\Box$    |          | L            |                 |           |          |          |          |
|             | 36       |  |                       |   |          | $\coprod$       | $\Box$  |          | M    |            | 86       |  |  |  | Ш               |         |       | 136        | Ш         |          | L            | Ш               |           |          | $\perp$  | _        |
|             | 37       |  |                       |   |          |                 | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          | 1,7  |            | 87       |  |  | $\Box$                                       | Ш               |         |       | 137        | Ш         |          | _            | Ш               | ot        | _        | _[       | _        |
|             | 38       |  |                       |   |          | $\coprod$       | $\bot$  |          | 1 1  |            | 88       |  | $\bot \bot$                                      |  | Ш               | H       |       | 138        | Ш         |          | 1            |                 |           |          | _        |          |
|             | 39       |  | Ш                     | $\perp$   |          | Щ               |   |          |      |            | 89       |  | $\bot \bot$                                      | $\perp \perp$                                | Ш               | F.F.    |       | 139        | Ш         | $\perp$  | $\perp$      | Ш               | Щ         | _        | _        | _        |
|             | 40       |  |                       |   |          | $\square$       |   |          |      |            | 90       |  | $\bot \bot$                                      | $\bot \bot \bot$                             | Ш               | 33      |       | 140        | Ц         | $\bot$   | $\perp$      | Ш               |           |          | _        | _        |
|             | 41       | _  |                       | $\perp$   | 1        | Ш               |   |          |      |            | 91       | $\bot$   | _  _   | $\perp \perp \mid$                           | Ш               |         |       | 141        | Ш         |          | $\perp$      | Ш               | $\sqcup$  | _        | _        | _        |
|             | 42       | L  |                       |   | <u> </u> | $\sqcup$        | $\perp$   |          |      |            | 92       |  |  |  | Ш               |         |       | 142        | Щ         |          | ╄            | Ш               |           | _        | _        | _        |
|             | 43       | L_   | $\sqcup \bot$         | $\perp$   | <u> </u> | Щ               |   | $\bot$   |      |            | 93       | $\bot$   | 44-  | +  | Ш               |         |       | 143        | Ш         |          | ↓_           | Ш               |           | $\dashv$ | 4        | _        |
|             | 44       | <u> </u>   | $\sqcup \bot$         | $\perp$   |          | Ц               | _   |          |      |            | 94       | +++  | ++   | +  | $\vdash \dashv$ |         |       | 144        | Щ         |          | +            | $\sqcup$        |           | $\dashv$ | _        | _        |
|             | 45       | $ldsymbol{ldsymbol{eta}}$                        | $\sqcup \!\!\! \perp$ | $\bot$  | $\perp$  |                 | _   | _        | 1.5  |            | 95       | -  | ++   | ++   | Ы               |         |       | 145        | $\square$ | -        | +-           | $\vdash \vdash$ |           | 4        | _        |          |
|             | 46       | <u> </u>   | $\sqcup \bot$         | $\perp$   | ļ        | $\sqcup$        | _   |          | M    |            | 96       | -  |  | +  | Н               | F.      |       | 146        | $\sqcup$  |          | 4            | Ы               | $\sqcup$  |          | _        | _        |
|             | 47       | <u> </u>   | $\sqcup \bot$         | _   | <u> </u> | <b> </b>        | _   | $\perp$  | 3.3  |            | 97       | -+++   | 44   | 4-4  | Щ               |         |       | 147        | Щ         |          | +-           | $\vdash \vdash$ |           | _        | _        | _        |
| <u> </u>    | 48       | <u> </u>   | $\sqcup \!\!\! \perp$ | $\bot$  | _        | $\sqcup$        | _   |          | 14.  |            | 98       |  | ++   | +  | Щ               | 1       |       | 148        | $\vdash$  | $\perp$  | +            | Н               | Щ         | 4        | _        | _        |
|             | 49       | <u> </u>   |                       | 4   | _        | $\sqcup$        |   | +        |      |            | 99       |  | ++   | +-   | $\vdash \vdash$ | À       |       | 149        | Н         | 1        | +            | Н               | Щ         | $\dashv$ |          | _        |
| L           | 50       | <u> </u>   | ĿĿ                    |   |          | Ш               |   | L_       | J. d |            | 100      |  |  | للل  | Ш               | ' "     |       | 150        | Щ         |          |              | L               | لبا       |          | $\perp$  |          |